

## MEMORANDUM

Senate	From	Senate Committee on
· · · · · · · · · · · · · · · · · · ·		Undergraduate Studies
Subject Changes in Science Curricula Requirements Resulting From Mathematics Curricula Changes	Date	1979-09-13

Action taken by SCUS in its meeting of 11 September, 1979 gives rise to the following motion.

#### MOTION

That Senate approve, and recommend approval to the Board of Governors, changes in curriculum requirements in the Faculty of Science resulting from curriculum revision in Mathematics and specified in paper S79-87 :

Science Departments and Programs - Effects from changes in Mathematics, subject to Mathematic changes being approved

- i) Biochemistry
  - 1. Change to Major Program
  - 2. Change to Honors Program
  - 3. BICH 403-3, Physical Chemistry, prerequisite change

#### ii) Biophysics

- 1. Change to Major Program
- 2. Change to Honors Program
- iii) Chemistry
  - 1. Change to Major Program
  - 2. Change to Honors Program
  - iv) Chemical Physics
    - 1. Change to Major Program
    - 2. Change to Honors Program
  - v) Mathematical Physics
    - 1. Change to Honors Program
- vi) Physics
  - 1. Change to Major Program
  - 2. Change to Honors Program
  - 3. Prerequisite changes for:

PHYS 211-3, 221-3, 325-3, 344-3, 345-3, 355-3, 384-3, 385,3, 413-3, 425-3, 484-3, NUSC 485-3

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•	SIMON FRASE	r university andum Scus 7	REGEIVED 79-25125 1979
•	H. M. Evans	From N. Heath	Name and Soffice
	Registrar	Assistant to t	the Dean of Science
Subjec	Changes in other courses and programmes resulting from Mathematics Curriculum		
	Revisions.		

If the Mathematics Curriculum revisions proposed by the Faculty of Science receive approval, consequential changes will be necessary in several other Science programmes and courses. These are given in detail on the attached pages in the following sequence;

Biochemistry - Major Program Honors Program ١ Prequisite for BICH 403-3

Biophysics - Major Program Honors Program

Chemistry - Major Program Honors Program

Chemical Physics

- Major Program Honors Program

Mathematical Physics

- Honors Program

- Major Program

Physics

Honors Program - Prerequisite changes for PHYS 211-3, 221-3, 325-3, 344-3, 345-3, 355-3, 384-3, 385-3, 413-3, 425-3, 484-3 NUSC 485-3

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# MEMORANDUM

Dr. C.L. Kemp	From A.M. Unrau
Biological Sciences Dept.	
Subject Biochem. Math Requirements	Date

The Biochemistry Committee has considered the above in light of the present structure of Math courses. The Math requirements for Biochemistry will now read as follows:

Biochem. Majors program:

Math 151-3, 152-3, 310-3 (9 hours) (Math 251-3 is recommended)

Honors Program:

Math 151-3, 152-3, 251-3, 310-3 (12 hrs.)

(See p. 386 of the 79-80 Calendar for current requirements)

A.M. Unrau

AMU:SB

P.S. The prerequisites of BICH 403-3, Physical Biochemistry, include MATH 253-4. This should be changed to MATH 310-3. The full statement should then read:

PHYS 121-3 (or PHYS 102-3), MATH 310-3 and BICH 301-3. BICH 413-2 will ordinarily be taken concurrently, but m ay be taken subsequent to BICH 403-3.

N. Heath for A.M. Unrau

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#### MEMORANDUM

o H. M. Evans	From N. Heath
SCUS	Assistant to the Dean of Science
Subject Biophysics Program Revisions	Date 1979 07 19
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To accomodate the changes in the Mathematics curriculum, the following changes in the Biophysics Major and Honors  $\operatorname{program}_S$  were approved by the Faculty of Science and are submitted to SCUS and Senate for consideration and approval.

Major Program (see p. 390-392 in the '79-'80 Calendar)

Lower division Mathematics requirements: MATH 151-3, 152-3 (or MATH 154-3, 155-3) 251-3, 252-3.

Upper division requirements: no change

Advising Lists - Theoretical and Physical Aspects of Biophysics MATH 232-3, 361-3, 415-3

Reference note (c) to be added after CHEM 361-3 (see below)

Honors Program (see pp. 392 - 393 in the '79-'80 calendar)

Lower division Mathematics requirements: - as for Major program.

Upper division requirements: no change

Advising Lists: Theoretical and Physical Aspects of Biophysics

MATH 232-3, 361-3, 415-3, 418-3 (e), 438-3

Reference to note (c) to be added after CHEM 361-3. (see below)

Notes for Major and Honors Programs.

(a) Students not having the necessary Grade 12 high school prerequisites will be required to take additional first year courses to obtain entry into the Program.

cont. on page 2...

Notes for Major and Honors Programmes cont.

- (b) PHYS 345-3. The requirement for PHYS 344-3 as a prerequisite can be waived with permission of the Department if CHEM 261-3 has already been taken. PHYS 385-3 is recommended.
- (c) CHEM 361-3. MATH 232-3 is recommended.
- (d) Whichever was not taken in the core program.
- (e) Has as a prerequisite either MATH 314-3 or PHYS 384-3.

N. Heath

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#### MORANDUM

Chairman, Faculty Undergraduate	From Dr. J. Walkley, Chairman, Depart-
Curriculum Committee	mental Undergraduate Studies Committee
Subject. Mathematics Requirements for Chemistry	Department of Chemistry
Students	June 21, 1979

Math. requirements for the Chemistry Program: -

Majors Students

Math. 151-3; 152-3; 251-3; 310-3; plus one of Math. 232-3; Math 252-3

Total 15 cr. hrs.

Honours Students

Math. 151-3; 152-3; 232-3; 251-3; 310-3; plus one of Math 252-3; 316-3

Total 18 cr. hrs.

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Math. 252-3 is recommended for students intending to take Physics 221-3.

NJS J. Walkley

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Registrar's Note: - For Math. read MATH

#### MEMORANDUM

o H. M. Evans

From N. Heath

SCUS

Assistant to the Dean of Science

Subject Revised Mathematics requirements Chemical Physics Programs.

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Date 1979 07 20

To accomodate the changes in the Mathematics curriculum, the following changes in the Chemical Physics Major and Honors programs were approved by the Faculty of Science and are submitted to SCUS and Senate for consideration and approval.

#### Honors Program

OLD Math requirements.

Lower Levels: 151-3, 152-3, 232-3, 253-4 Upper Levels: 310-3, 312-4, (or 431-4)

NEW Math requirements.

Lower Levels: 151-3, 152-3, 232-3 251-3, 252-3 Upper Levels: 310-3

Majors Program

Same as above NEW requirements.

(see pp. 405-406 of the '79-'80 Calendar)

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#### MEMORANDUM

H. M. Evans	From N. Heath
SCUS	Assistant to the Dean of Science
Subject MATHEMATICAL PHYSICS (HONORS) DEGREE REQUIREMENTS	Date

The Faculty of Science has approved the following revisions to the Mathematics requirements in the MAPH Honors program. (see pp. 424-425 in the '79-'80 Calendar)

Lower Division Requirements

MATH 151-3, 152-3, 232-3, 242-3, 251-3, 252-3

Upper Division Requirements

MATH 310-3, 313-3, 320-3, 322-3, 361-3, 418-3

Two of the following: MATH 416-3(e), 466-4, 467-3, 468-4, 469-4, 470-4, 471-4

Three of the following: A) MATH 316-3, 387-3(b), 415-3(c), 419-3(c), 424-3

B) MATH 425-3, 426-3, 438-3, 439-3, 444-3(d)

with at least one course from each of groups A and B.

Physics and Computing Science Requirements - unchanged

NOTES

b) requires MATH 272-3

- c) MATH 314-3 recommended
- d) MATH 425-3 required
- e) MATH 316-3 required

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# MEMORANDUM

Mr. N. Heath	From R. F. Frindt
Dean of Science Office	Physics Department
Subject	Date19.79-06-13.

The new Physics-Math. requirements are:

Phys. Majors: M151-3, 152-3, 251-3, 252-3, 232-3, 310-3 plus one other math. course numbered 316 or greater.

Phys. Honors: M151-3, 152-3, 251-3, 252-3, 232-3, 310-3, 322-3 plus two more courses numbered 316 or greater.

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R. F. Frindt

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Registraris Note: - For M read MATH For Phys. read PHYS

	SIMON FRASER UNIVERSITY MEMORANDUM		
To	N. Heath	From	K.S. Viswanathan
Subject.	Dedn of Science Office Revised Prerequisites for Physics Courses	Date	Physics 1979 05 番イ こい

The physics department recommends that the Faculty Undergraduate Curriculum Committee accept the following prerequisite structure for the undergraduate physics courses.

Course	Proposed Pre- or Corequisite	<u>Old</u> Pre- or Corequisite
Phys 211-3 [Mechanics]	Phys 121-3 (or Phys 102-3). M251-3 must precede or be taken concurrently	Phys 121-3 /or M253-4. must precede or be taken concurrently
Phys 221-3 [E & M]	Phys 121-3 (or Phys 102-3), M251-3. M252-3 is a recommended corequisite.	Phys 121-3 /or P102-3. M253-4 must precede or be taken concurrently
Phys 325-3 [Relativity and Electromagnetism]	Phys 221-3, M252-3. M310-3 must precede or be taken concurrently	Phys 221-3. M312-4 must precede or be taken concurrently
Phys 344-3 [Thermal Phys]	Phys 121-3. M251-3.	Phys 121-3. M253-4 must precede or be taken concurrently
Phys 3 <b>45-3</b> [Statistical Physics]	No change.	Phys 344-3 /or Chem 261-3 Phys 385 is a recommended prerequisite
Phys 355-3 [Optics]	Phys 221-3, M252-3.	Phys 221-3, M253-4.
Phys 384-3 [Math Phys]	Phys 211-3 /or M263-4, Phys 221-3, M252-3, M310-3.	Phys 221-3, M232-3. M253-4 and either M310-3 or M312-4.
Phys 385-3 [Quantum Physics]	Phys 211-3 /or M263-4. Phys 221-3, M252-3. M310-3 must precede or be taken concurrently	Phys 211-3 /or M263-4. Phys 221-3. M310-3 must precede or be taken concurrently

Registrar's Note: For M read MATH For Phys read PHYS

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Course	Proposed Pre- or Corequisite		<u>ld</u> Pre- or orequisite
Phys 413-3 [Classical Mech.]	Phys 384-3 OR Phys 211-3 /or M263-4. Phys 221-3, M252-3, M310-3 and M322-3 or permission of ins	Phys 2	11-3 and Phys 384-3 OR 11-3, M310-3 and M312-
Phys 415-3 [Q.M.]	Phys 385-3 and either Phys 384-3 or M314-3 and M419-3.		85-3 and either 84-3 or M420-4.
Phys 425-3 [E <sub>i</sub> .M.]	Phys 325-3 and either Phys 384-3 or M314-3.		25-3 and either 84-3 or M420-4.
Phys 465-3 [S.S.]	No change.	Phys 3	85-3.
Phys 484-3	Phys 384-3 or permission of instructor.	Phys 3 M312-4	84-3, M310-3,
NuSc 485	Phys 385-3. It is recommended that Phys 415-3 precede or be taken concurrently		

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R.7 rindt, for

K.S. Viswanathan

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